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INSTALLATION, OPERATION AND MAINTENANCE GUIDE **AIR BREATHERS VC SERIES**

STORAGE AND SHELF LIFE

Handle with care. Max storage period before putting the instrument into service is 5 years (standard ambient conditions temperature -20 +40 °C – air humidity 75 %) as long as the instrument is kept in its envelope and in a clean place. Before use, visual check that no damages happened to any parts.

UNPACKING

Unpack breather from its box, pull it out from the plastic bag and remove the plastic plug that close the flange hole (pos. A).

Make a correct disposal of packaging according to local environment regulations.

MOUNTING POSITION

The breather is mounted on the end of the connecting pipe coming from top of conservator.

If breather has threaded connection (tap connection) then sealing taper (Teflon taper) has to be mounted on end of pipe and the breather can be screwed in on pipe.

For models VE 50 to 150 assemble 1 ½" flange adaptor between breather flange and pipe as per mounting sketch.

If breather has flanged connection then are required 4 hex screws M16x30 plus relative washer, nuts and flange gasket made in NBR (fittings and flange gasket if not ordered are not supplied) and the breather can be easily mounted on pipe.

SETTING TO WORK

Once the breather is mounted on pipe the following operation have to be performed:

Fill the breather with a charge of silicagel

To do this operate following steps

- Unscrew the wing nuts (C) that connects upper flange to breather
- Pour in the charge of silicagel
- Reassemble the breather by means the wing nut (C)

The breather is now ready to work.

MAINTENANCE

During transformer maintenance is a good practice to check condition of breather.

First of all clean outside surfaces and perform following visual tests:

- Integrity of breather
Breather should not have visible external damages
- Saturation of silicagel
Check colour of silicagel through inspection windows: if colour has changed from orange to white you have to change the silicagel: to do so read the following paragraph

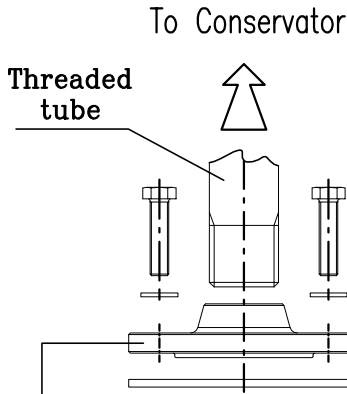
CHANGE CHARGE OF SILICAGEL

If the charge of silicagel have to be changed, operate in this way:

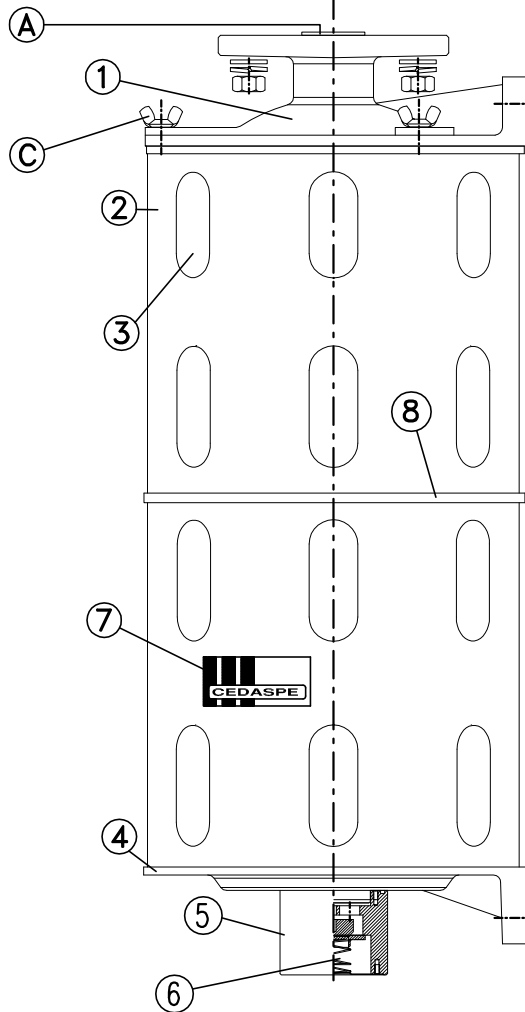
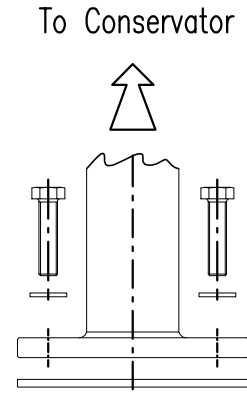
- Remove the oil guard protection together with oil cup by unscrewing the knurled ferrule (D) that hold protection of oil guard on bottom flange
- Unscrew the wing nuts (C) that connect upper flange to breather
- Remove the exhaust silicagel by overturn the silicagel
- Pour in the fresh charge of silicagel
- Reassemble the breather by means the wing nut (C)

Saturated silicagel can be regenerated or disposed; in this case of disposition operate according to local environmental rules.

Tap connection



Flange connection



Pos	Descrizione/Description
1	Coperchio Top cap
2	Protezione acciaio inox Stainless steel housing
3	Contenitore trasparente di sali Gel container (transparent)
4	Coperchio inferiore Bottom cap
5	Valvola meccanica Mechanical valve
6	Presca d'aria Air intake
7	Targhetta d'identificazione Data plate
8	Flangia intermedia Frame (VC100/150)

Drawing shows
Breather VC100 model

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			Finitura	TOLLERANZA GENERALE UNI-ISO 2768
			Trattamento	Qualità = f <input type="checkbox"/> m <input checked="" type="checkbox"/> c <input type="checkbox"/>
			Materiale Unific. Design.	Assieme =
			Peso Grezzo kg	Codice grezzo =
Ind.	Data	Modifica	Peso Finito kg	Codice =

CEDASPE	Titolo Breather mounting sketch	Data 10/03/11	Dis. Nr 3339/1
		Scala 1:5	
		Dis.	
		Visto	